

What is Claimed:

1. A removable interchangeable adjustment knob, said adjustment knob magnetically fastenable to an adjustment means.

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2. The adjustment knob of Claim 1 wherein the adjustment means comprises a rotatable shaft.

3. The adjustment knob of Claim 1 adapted for complementary magnetically attractive engagement with said adjustment means.

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4. The adjustment knob of Claim 1 wherein said adjustment means comprises focusing means.

15 5. A microscope comprising:

adjustment means and a removable interchangeable adjustment knob, said adjustment knob magnetically fastenable to said adjustment means.

6. The microscope of Claim 5 wherein said adjustment means comprises a rotatable shaft.

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7. The microscope of Claim 5 wherein said adjustment knob is adapted for complementary magnetically attractive engagement with said adjustment means.

8. The microscope of Claim 5 wherein said adjustment means comprises focusing means.

9. The microscope of Claim 5 comprising a second adjustment means.

5 10. The microscope of Claim 9 wherein said second adjustment means comprises a second focusing means.

11. The microscope of Claim 9 wherein said removable interchangeable adjustment knob is magnetically fastenable to said second adjustment means.

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12. A microscope comprising:

adjustment means comprising a first adjustment knob and a removable adjustment knob, said first adjustment knob and said removable adjustment knob coaxial and independently rotatable with respect to one another.

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13. The microscope of Claim 12 wherein said adjustment means comprises a focus drive means including a rotatable shaft.

14. The microscope of Claim 12 wherein said removable adjustment knob is releasably  
20 fastenable to said focus drive means.

15. The microscope of Claim 13 wherein said removable adjustment knob is fastenable to said focus drive means by first means operatively arranged for prevent separating movement of said removable adjustment knob axially away therefrom and second means tending to allow rotation of said focus drive means with said removable adjustment knob.

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16. The microscope of Claim 15 wherein said first means is magnetic.

17. The microscope of Claim 16 wherein said second means comprises pin means extending axially of said removable adjustment knob and pin receiving means complementarily extending  
10 axially of said focus drive means.

18. The microscope of Claim 17 wherein one of said pin means and pin receiving means is formed of magnetic material and the other of said pin means and said pin receiving means is formed of magnetically attractable material.

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19. The microscope of Claim 18 wherein said focus drive means is operatively arranged for causing vertical displacement of a microscope stage.

20. The microscope of Claim 19 comprising at least two adjustment means and two  
20 removable adjustment knobs are disposed on opposite sides of said microscope.

21. The microscope of Claim 20 wherein one of said removable adjustment knobs has an axial length greater than another.

22. A microscope comprising:

5 a first focusing means comprising a first removable adjustment knob and a first focus drive means;

a second focusing means comprising a second removable adjustment knob and a second focus drive means;

wherein each of said first second removable adjustment knobs are releasably and alternatively  
10 fastenable to either of said first and second focus drive means and one of said first and second adjustment knobs has an axial length greater than that of the other.

23. The microscope of Claim 22 wherein each of said first and second removable adjustment knobs is releasably fastenable to each of said first and second focus drive means by magnetic  
15 attraction therebetween.

24. The microscope of Claim 22 wherein each of said first second removable adjustment knobs is releasably fastenable to each of said first and second focus drive means by pin means and pin receiving means.

20 25. The microscope of Claim 24, wherein said first and second removable adjustment means are releasably fastenable to each of said first and second focus drive means by pin means and pin

receiving means extending axially of each of said first and second adjustment means and each of said first and second focus drive means; one of said pin means and said pin receiving means being formed of magnetic material and the other thereof formed of magnetic attractable material.

5 26. The microscope of Claim 22 wherein said first and second focus drive means are disposed on opposite sides of said microscope.

27. In combination with an interchangeable stage drive assembly, a microscope comprising:

10 a first focusing means comprising first coarse and first removable fine focus adjustment knobs;

a second focusing means comprising second coarse and second removable fine focus adjustment knobs; and,

at least first and second focus drive means;

15 wherein said first and second removable fine focus knobs is releasably and alternatively fastenable to each of said at least first and second focus drive means.

28. The microscope of Claim 27 wherein said at least first and second focus drive means are disposed on opposite sides of said microscope and one of said first and second removable fine focus adjustment knobs has an axial length greater than that of the other.

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29. The microscope of Claim 28 wherein said each of said removable fine focus adjustment knobs are releasably and alternatively fastenable to each of said at least first and second focus drive means by magnetic attraction therebetween.

5 30. The microscope of Claim 29 wherein each of said first and second fine focus adjustment means are releasably and alternatively fastenable to each of said at least first and second focus drive means by pin means and pin receiving means.

10 31. The microscope of Claim 30, wherein said each of said first and second removable fine focus knobs are releasably fastenable to said at least first and second focus drive means by pin means and pin receiving means extending axially of each of said first and second focus drive means, and one of said pin means and said pin receiving means is formed of magnetic material and the other formed of magnetic attractable material.

15 32. The microscope of Claim 28 wherein one of said removable fine focus adjustment knobs has an axial length less than the other and is disposed on a same side of said microscope as a microscope stage drive mechanism, said removable fine focus adjustment knob having an axial length less than the other being operatively arranged for focusing an object plane.